

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application.

1. (Currently amended) A method ~~for providing uniform service discovery through the use of a plurality of service discovery protocols~~, comprising:

generating service discovery queries from a user interface;

translating the service discovery queries into formats required by each of ~~the a~~ plurality of service discovery protocols, wherein the plurality of service discovery protocols include a local service discovery protocol operating via a local network and a remote service discovery protocol operating via an Internet host;

receiving results indicative of services found from each of the plurality of service discovery protocols in response to the service discovery queries; and

translating the results into a uniform format for display on the user interface, wherein the uniform format is independent of the vocabularies and behaviors of the plurality of service discovery protocols.

2. (Original) The method according to Claim 1, further comprising translating the service discovery queries into a format required by a service discovery engine.

3. (Original) The method according to Claim 2, wherein the service discovery engine compiles service discovery results in response to the service discovery queries and provides the service discovery results to the user interface.

4. (Original) The method according to Claim 3, wherein the service discovery engine gains access to the plurality of services found.

5. (Original) The method according to Claim 4, wherein the service discovery engine provides access to the plurality of services found to a plurality of network entities within a domain of the service discovery engine.

6. (Original) The method according to Claim 1, wherein the plurality of service discovery protocols includes Bluetooth service discovery protocol.

7. (Original) The method according to Claim 1, wherein the plurality of service discovery protocols includes one or more of Service Location Protocol (SLP), Salutation, Jini, Bluetooth, and Universal Plug and Play (UPnP).

8. (Currently amended) A service discovery system, comprising:

a first service discovery agent coupled to receive service discovery queries in a user format and coupled to transform the user formatted service discovery queries into a plurality of formats each dependent upon a plurality of respective service discovery protocols, wherein the plurality of service discovery protocols include a local service discovery protocol operating via a local network and a remote service discovery protocol operating via an Internet host; and

a second service discovery agent coupled to receive service discovery queries from the first service discovery agent and in response, to provide service discovery responses to the first service discovery agent, wherein the second service discovery agent is coupled to access services discovered by the first service discovery agent.

9. (Original) The service discovery system according to Claim 8, wherein the first service discovery agent comprises a service configuration tool coupled to allow first discovery agent operation independent of second service discovery agent operation.

10. (Original) The service discovery system according to Claim 9, wherein the first service discovery agent further comprises a canonical query transform coupled to provide the plurality of transformed formats.

11. (Original) The service discovery system according to Claim 10, wherein the canonical query transform is configured with a programmable number of format capabilities.

12. (Original) The service discovery system according to Claim 11, wherein the programmable number of format capabilities is dependent upon a number of plug in modules installed within the canonical query transform.

13. (Original) The service discovery system according to 12, wherein the programmable number of format capabilities includes Bluetooth service discovery protocol.

14. (Original) The service discovery system according to 12, wherein the programmable number of format capabilities includes one or more of Service Location Protocol (SLP), Salutation, Jini, Bluetooth, and Universal Plug and Play (UPnP).

15. (Currently amended) A network host, comprising:

means for receiving service discovery queries from a service discovery agent;

means for discovering services within a domain of the network host in response to the service discovery queries, wherein the domain of the network host includes a local service discovery protocol operating via a local network and a remote service discovery protocol operating via an Internet host;

means for providing information describing the services discovered within the domain of the network host to the service discovery agent, wherein the information is provided in a uniform format that is independent of the vocabularies and behaviors of the local and remote service discovery protocols; and

means for accessing services within a domain of the service discovery agent.

16. (Original) The network host according to Claim 15, further comprising means for providing access to the services within the domain of the service discovery agent to network entities within the domain of the network host.

17. (Currently amended) A computer-readable medium having instructions stored thereon which are executable by a network host processing system for facilitating service discovery by performing steps comprising:

receiving service discovery queries from a service discovery agent;
discovering services within a domain of the network host in response to the service discovery queries, wherein the domain of the network host includes a local service discovery protocol operating via a local network and a remote service discovery protocol operating via an Internet host;
providing results of the services discovered within the domain of the network host to the service discovery agent, wherein the results are provided in a uniform format that is independent of the vocabularies and behaviors of the local and remote service discovery protocols; and
accessing services within a domain of the service discovery agent.

18. (Original) The computer-readable medium according to Claim 17, further comprising instructions to allow network entities within the domain of the network host to access services within the domain of the service discovery agent.

19. (Currently amended) A mobile terminal ~~wirelessly coupled to a network having a service discovery engine, the mobile terminal~~ comprising:

a network interface capable of wirelessly coupling the mobile terminal to a network having a service discovery engine;

a memory capable of storing a service discovery agent coupled to locate services having a plurality of service description protocols in response to received user queries having a user format, wherein the plurality of service discovery protocols include a local service discovery protocol operating via a local network and a remote service discovery protocol operating via an Internet host;

a processor coupled to the memory and configured by the service discovery agent to enable service discovery query exchange with the service discovery engine; and

a transceiver configured to facilitate the service discovery query exchange with the service discovery engine, wherein the transceiver further facilitates access to the services having a plurality of service description protocols by the service discovery engine and

a user interface configured to present information describing the services that is received in response to the service discovery query exchange, wherein the information is presented in a uniform format that is independent of the vocabularies and behaviors of the plurality of service discovery protocols.

20. (Original) The mobile terminal according to Claim 19, wherein the service discovery agent comprises a service configuration tool coupled to allow service discovery agent operation independent of the service discovery engine.

21. (Original) The mobile terminal according to Claim 20, wherein the service discovery agent further comprises a canonical query transform coupled to translate the user queries into a format required by the plurality of service description protocols.

22. (Original) The mobile terminal according to Claim 21, wherein the canonical query transform is further coupled to translate responses from the plurality of service description protocols into the user format.

23. (Currently amended) A computer-readable medium having instructions stored thereon which are executable by a mobile terminal processing system for providing service discovery by performing steps comprising:

receiving service discovery queries in a user format;

transforming the user formatted service discovery queries into a plurality of formats relating to a plurality of service discovery protocols, wherein the plurality of service discovery protocols include a local service discovery protocol operating via a local network and a remote service discovery protocol operating via an Internet host;

receiving service discovery results in a plurality of service discovery protocols in response to the service discovery queries; and

transforming the service discovery results into ~~the user~~ a uniform format that is independent of the vocabularies and behaviors of the plurality of service discovery protocols.

24. (Original) The computer-readable medium according to Claim 23, further comprising instructions to perform steps comprising:

providing the service discovery queries to a network host; and

receiving responses from the network host in response to the provided service discovery queries.